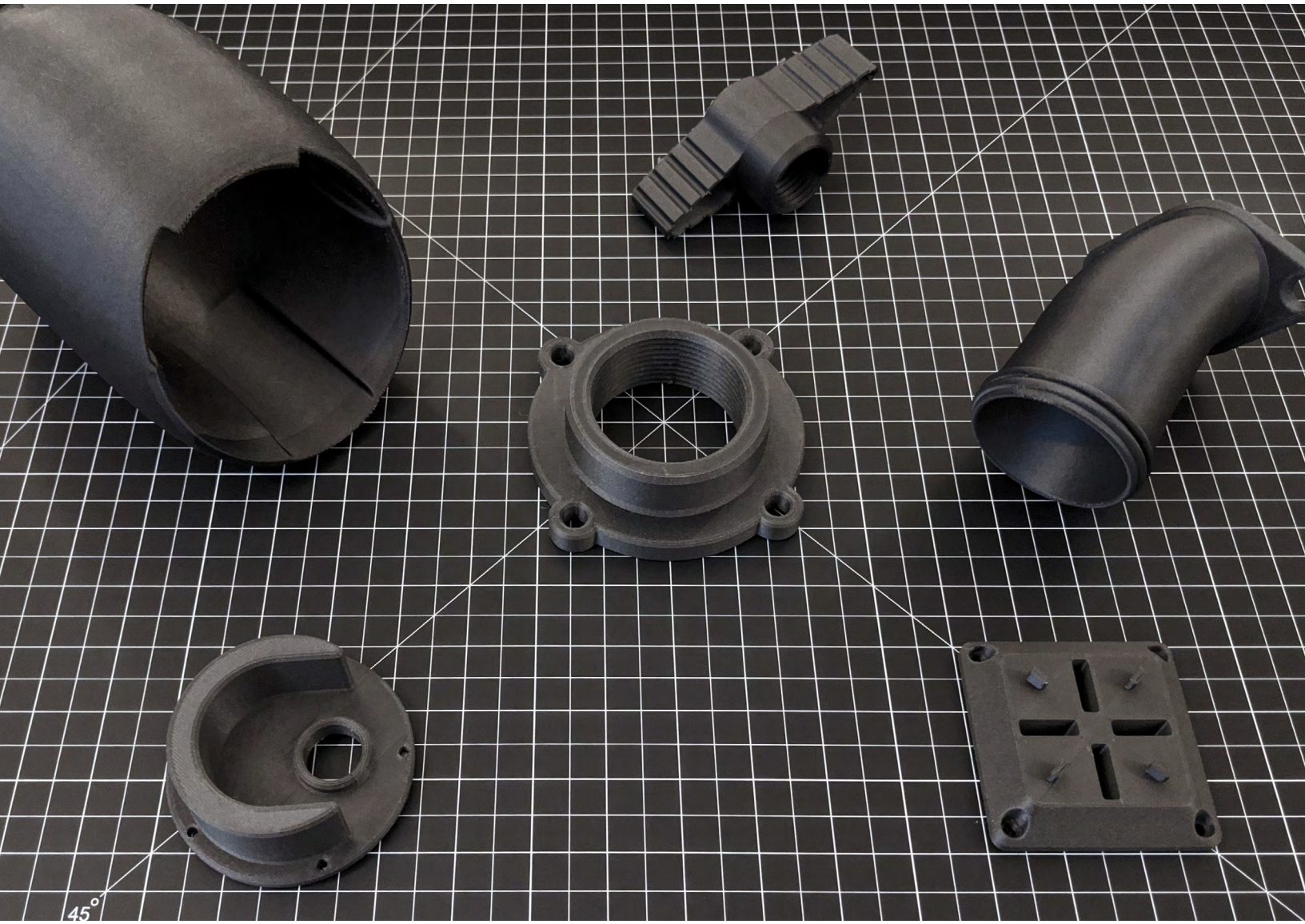


MAKERBOT NYLON CARBON FIBER | Data Sheet

Print Strong, Heat-Resistant Metal Replacement Parts

Carbon fiber reinforced nylon optimized for high strength to weight ratio, stiffness, and heat resistance making it ideal for structural applications and metal replacements.

184º C	110 MPA	7600 MPA
HEAT DEFLECTION	TENSILE STRENGTH	TENSILE MODULUS

STRENGTH TO WEIGHT

A formidable tensile strength of 110 Mpa makes MakerBot Nylon Carbon Fiber ideal for lightweighting metal parts such as robotic end effectors.

STIFFNESS

For applications that require parts hold their form with minimal flex - such as automotive brackets or inspection gauges, Nylon Carbon Fiber offers an impressive 7600 Mpa tensile modulus.

HEAT DEFLECTION

When exposed to heat other materials can deform under pressure. Nylon Carbon Fiber offers high heat deflection of 184ºC making it great for higher temp under-hood and tooling applications.

TECH SPECS	Imperial	Metric
Tensile Strength (ISO 527)	16,000 psi	110 MPa
Tensile Modulus (ISO 527)	1,102,000 psi	7600 Mpa
Strain at Yield (ISO 527)	2%	2%
Heat Deflection Temperature (ASTM 648, 66 psi)	363ºF	184˚C

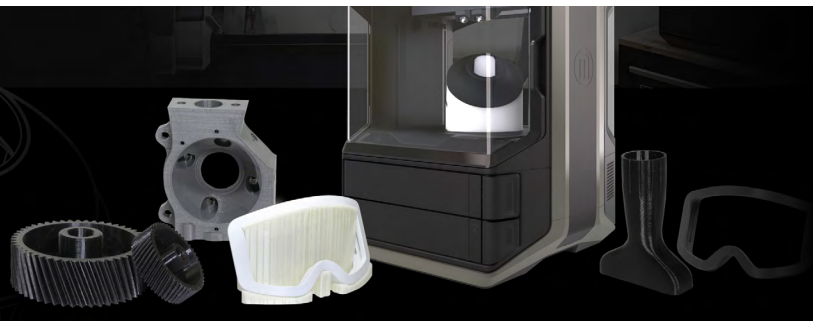
Specifications based on data provided by the material supplier. Actual printed part specs may vary based on part geometry and print parameters selected.

COMPATIBLE PRINTER

METHOD | METHOD CF | METHOD X

COMPATIBLE EXTRUDER

METHOD Composite Extruder



MAKERBOT NYLON 12 CARBON FIBER | Data Sheet

Fast and Effortless Carbon Fiber Parts

Carbon fiber reinforced nylon 12 provides the easiest carbon fiber composite 3D printing experience thanks to superior moisture resistance. Get the specs you require in any environment.

SUPERIOR
MOISTURE RESISTANCE

66 MPA
TENSILE STRENGTH

6000 MPA
TENSILE MODULUS

MOISTURE RESISTANCE

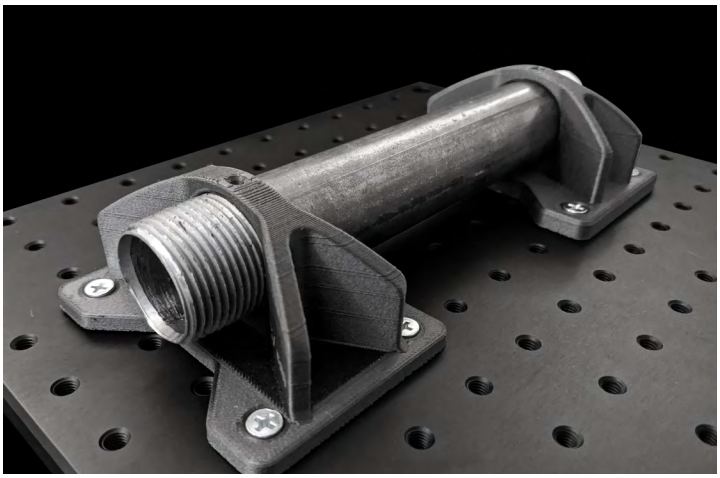
Nylon 12's superior moisture resistance means easier printing, more consistent results, and parts that can perform in a wider range of environments.

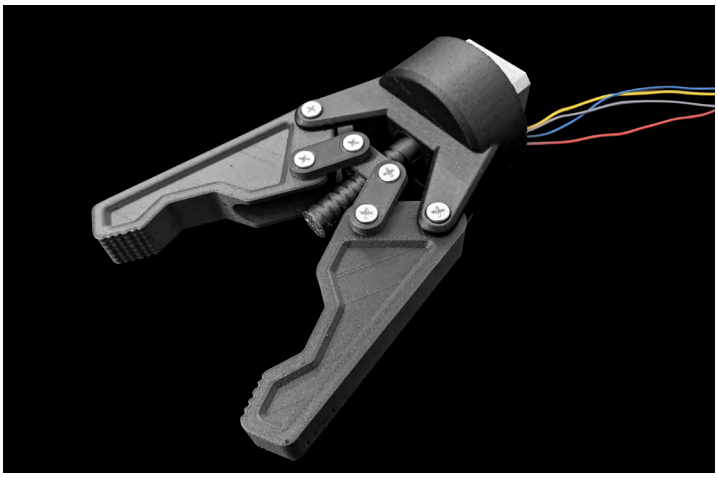
STIFFNESS

For applications that require parts hold their form with minimal flex - such as automotive brackets or inspection gauges, Nylon Carbon Fiber offers an impressive 6000 Mpa tensile modulus.

EASE OF USE

Carbon fiber is normally limited to a handful of expensive and advanced applications. Nylon 12 Carbon Fiber + METHOD makes carbon fiber accessible to anyone for nearly any application - from simple tools to complex end-use parts.





TECH SPECS	Imperial	Metric
Max Tensile Strength	9,500 psi	66 MPa
Max Tensile Modulus	870,200 psi	6000 MPa
Heat Deflection Temp @ 0.455 MPa	309º F	154ºC

Specifications based on data provided by the material supplier. Actual printed part specs may vary based on part geometry and print parameters selected.

COMPATIBLE PRINTER

METHOD | METHOD CF | METHOD X

COMPATIBLE EXTRUDER

METHOD Composite Extruder [1C]